

Listing of Claims:

Claims 1-21 (Canceled).

22. (New) An imaging apparatus for a microscope,
comprising:

an imaging section to pick up an observation image formed by
a microscope;

5 a display section which is separate from the imaging section
for displaying the observation image picked up by the imaging
section; and

an operation section comprising:

10 a dedicated shutter switch solely for causing the
imaging section to pick up the observation image,

a storage section for storing the picked up observation
image, and

15 a mode switching section for switching the imaging
apparatus between an imaging mode in which the observation image
is picked up and displayed, and a reproducing mode in which the
observation image stored in the storage section is reproduced
and displayed;

wherein the operation section is operable to manipulate the
observation image displayed by the display section.

23. (New) The imaging apparatus according to claim 22, wherein the display section and the operation section are integrated as a single device.

24. (New) The imaging apparatus according to claim 22, wherein the display section and the operation section are attachable to and detachable from each other.

25. (New) The imaging apparatus according to claim 22, wherein a display magnification for the observation image displayed by the display section is selectable by the operation section in at least one of the imaging mode and the reproducing mode.

26. (New) The imaging apparatus according to claim 25, wherein the display magnification is displayed by the display section in at least one of the imaging mode and the reproducing mode.

27. (New) The imaging apparatus according to claim 25, wherein the observation image displayed by the display section in the reproducing mode is a central portion of the observation image stored in the storage section.

28. (New) The imaging apparatus according to claim 25, wherein in the reproducing mode, the operation section is operable to designate at least one part of the observation image and to cause the display section to display the designated part of the observation image in accordance with the selected display magnification.

29. (New) The imaging apparatus according to claim 28, wherein in the reproducing mode, the operation section is operable to move the designated part of the observation image within the observation image.

30. (New) The imaging apparatus according to claim 28, wherein in the reproducing mode, the operation section is operable to cause the display section to display an index indicating the part of the observation image.

31. (New) The imaging apparatus according to claim 28, wherein in the reproducing mode, the at least one designated part of the observation image comprises a plurality of designated parts, and the operation section is operable to cause the display section to display the designated parts in a list.

32. (New) The imaging apparatus according to claim 31, wherein in the reproducing mode, the operation section is operable to cause the display section to display the designated parts in the list reduced in scale.

33. (New) The imaging apparatus according to claim 31, wherein in the reproducing mode, the operation section is operable to cause the display section to display the designated parts in the list magnified in scale.

34. (New) The imaging apparatus according to claim 31, wherein in the reproducing mode, the operation section is operable to cause the display section to display the designated parts in the list with the display magnification.

35. (New) The imaging apparatus according to claim 22, wherein the operation section is connectable to a personal computer.